

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/769,744
Source: 1FW0
Date Processed by STIC: 1/27/05

ENTERED



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/769,744

DATE: 01/27/2005
TIME: 15:54:47

Input Set : A:\2051-004.txt
Output Set: N:\CRF4\01272005\J769744.raw

4 <110> APPLICANT: Helgadottir et al.
 6 <120> TITLE OF INVENTION: SUSCEPTIBILITY GENE FOR MYOCARDIAL INFARCTION
 8 <130> FILE REFERENCE: 30847/2051-004
 10 <140> CURRENT APPLICATION NUMBER: US 10/769,744
 11 <141> CURRENT FILING DATE: 2004-01-30
 13 <150> PRIOR APPLICATION NUMBER: PCT/US03/32556
 14 <151> PRIOR FILING DATE: 2003-10-16
 16 <150> PRIOR APPLICATION NUMBER: US 60/419,433
 17 <151> PRIOR FILING DATE: 2002-10-17
 19 <150> PRIOR APPLICATION NUMBER: US 60/449,331
 20 <151> PRIOR FILING DATE: 2003-02-21
 22 <160> NUMBER OF SEQ ID NOS: 609
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 214000
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
 32 gactaagatg aatatgcatt cattcaccaa aatctcatat tcccaaaaaag caggaaaggt 60
 33 agtacagtga gatggatgat gccttcacat gactcagatg tcacgtgtt ctcaccattg 120
 34 agacccccc aa ggcacccctt cccagcattt accagaatgt gtgtgtact attacagt 180
 35 atttgtgtaa ttatttgatt gtttctctt gtttctctt gtttctctt gtttctctt 240
 36 tccccaccc tacactgcactt ccaggatcca gcttcacaaa catttgttga ataatgtt 300
 37 aagaaaaagag gacaccccca aagaggctgc aaggaaaaaa gctacaaga cagaagcacc 360
 38 agaaaaaaagt agggtcatgt aagtcaaaagc aggaaaaaaag ttccatgggt ggggtggc 420
 39 catgttctaa tgccacgaag gcacaaaagta ggataaaaggt taaaatcatg cctttgggtt 480
 40 tggcaaatat gaagcttatac ggttagccta gcgagaacaa ttccatcagg gagcagaagc 540
 41 taactgcagt gggttgagtc atcaaggcagg cataaggaag tagggatacc ccattataag 600
 42 ctactcttc aagaagctca aatctgaagg ttaggagaat taggtca gctagaagga 660
 43 aatgtggagt cgaggggctg ttttcctcc caaggagttt aaaggtgtaa cggtgcattt 720
 44 aaccacttca gacaaaggcc gatataataa gagaagttaa aacgcacgcc tcaagattt 780
 45 ggaaggctt gggttggct taaagaggtt ggagcatatt tcctatccta ggacagagaa 840
 46 taaagaagaa aggataaggcc cccatggaga taaatttcta agtgttaaag aagaggctca 900
 47 gaaaatttcta gcatgatagg ctcactttt tcttttcca tgaaggagat ggcaaagtca 960
 48 actgacatga gaaaggtgac aatactgtat ggttgaagag cgatggacat ttgaaataac 1020
 49 ttcttagacc agtagaggctt ggagttcata aatcagaact ggctacaggt tatatatgtt 1080
 50 tttttttttt tctccaaacag cataagataa cagagcgaag tctgttagaa tgaaagaaga 1140
 51 gtcagatgag gatagctgga gctagtgcac ggagggaaac accacgggtt gagccaggtt 1200
 52 cccccctggat ttataattca tactgaattc caacaacaga agggctctaa gcaggagat 1260
 53 gacagatttca agaagactga gacacattt gtaaaaaaaa gttaggagaa aacctgattt 1320
 54 tggatttggat gcaagccata gacggcagta ttttcagaaa ggagggaaatg gtcaacagtg 1380
 55 actttcttagt ctggagctca ggaggaagag gcaactctac ctgtatggat taagatcatg 1440
 56 gaggttagctg agatcaccta gcttgggtt gtcacatgtt aaaagaagaa agaataggag 1500

Q6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/769,744

DATE: 01/27/2005
TIME: 15:54:47

Input Set : A:\2051-004.txt
Output Set: N:\CRF4\01272005\J769744.raw

57 aagtccccca ggaacacaga cattaagtgg ggctgtggg acaacacaag aagagaggct 1560
58 tgcaaaggag cctgagcagc tgtcatgaga gaggtaggat ggtggactcg gagaagaggc 1620
59 agaagatgtt cttaaaggaa ggacactgct gccaagtatg cagccaaatg gtgacaaaga 1680
60 aagaccctgt tgcgagaaaa aaagtcatgt aagtagtagg aacgatgaca gatgacactg 1740
61 gggttaagac tgaggagaga gaagtgtaa agtggaaagca gagggcagac cactttctg 1800
62 agacactgaa gaggcatagt tagaaataaa ggggagtcgc cagaaaggaa ttgtggcta 1860
63 agcaagaggt tttcttaag actgaaatac ataagcatga tttaaatgct gctggatgg 1920
64 agttcacaga cctgaaagac agaagacaaa gcggatcatc aagatagtgg aatttactga 1980
65 aatgagagag gaaaatccc tccacaggaa atgcagacat gagggagggg ccagaaggac 2040
66 agtggaaaca tcagcaactg gtcccccaac ttctgagtga atgtggagat ataatcaggt 2100
67 aaaggactgc atcatctccc tggttaatga tggagtca gaaaagagtg tcttatacag 2160
68 aagtgtgat atactggcc gggcgcaagt gctcaacgc gtaatctaag cacttggga 2220
69 ggccaaggca ggcggatcac ctgaggtca gagttcatga ctggcctggt caacatggca 2280
70 aaatcccacc tctactaaaa acaaaagcct gtaatcccag ctactaggg gctgaggca 2340
71 ggagaatcgc ttgaacccag gaggcagagg ttgcagttag ccaaggctgc accactgtac 2400
72 tccagcctgg gcaacagagc tagactcagt ctcaaaaaaaaa aaaaaaaaaag atgtatttat 2460
73 tctcactgtt taaatttctg tgtaagaat actctctcat atagaagtaa atttataatat 2520
74 aaaattatata agaaccacta taaaatactc aggttataa aatttatata taaacttgg 2580
75 gacatataaa attccatgtt aatgactata aagtactctt atatgaaaag tatatgaatt 2640
76 aaattatata tcaacttact ttatattac agtattttt ttatatacagaa gtttatatag 2700
77 tgacaataaa tatttctcaa gaacgatttc acataataga agtataaaatt atccatttcc 2760
78 aatagtgaaa aagaaaagca gtccacacc agtgacaggg ctacgaatct aagaggtaca 2820
79 aagacttcat tcttagagac actgaggtca gggcatggcc aacacatctg aagctgatag 2880
80 aattggcgct ggggtggg gagacggta ggtattacta ttacaatggc agacgcttgg 2940
81 ccttgataac tagccaatca gggggaaaga ttctggttcc ctctgttatt atctgaacta 3000
82 gtgtgttccc aaagggttaa gatggtttat ggaaggcaca agatcagcaa accataaagg 3060
83 attagcacta agaaggaagg aagttagacca agtgttaatg cgatgccc gtaagagcca 3120
84 ggctctcgat gtatgttcta catgggttgg gggtaaaaaa aatgtcagc ctccagagca 3180
85 caggcctta agcctcaagt actgttaaca gtagagtttta ctatgttaca gcagaatta 3240
86 caaccagtaa ttcttaaggcc aattactca gcaagtttta cttagaacaag gaagcttgc 3300
87 ttcgaggtca aatcgatttc tgcatattata gaagcatcta gatgttctt gttcaaacaa 3360
88 tgggttaaaa tccccacaca ttttatttct gacagagtgt tccctatatt gcctggccag 3420
89 gagtgataac attgcttggc tattttataaa aacacatttc tggtggctgg cgcaagttgg 3480
90 cacacctgtt atccctggcac ttggggaggc tgaggcagga ggtacttca actccaggag 3540
91 tttgacagca gcctggccaa catagcaaga tcccatctt ctaaaaaatt taaaatttag 3600
92 ctgggtgtgg tggcagacac ctgttagtccc agtcctcag gaagctgagg tggaggatc 3660
93 acttgagccc aagcaggtt aggctgcagc gtgtgtgac tggtggcttca cactccagcc 3720
94 tgcgcaacac actgagagag actctgtctc aaaaaaaaaatc atcaaataaa aatttttttt 3780
95 ccattttctt cttttgtac attacagcca tgcaacttcaa aggcttagcac aatttttttt 3840
96 ctgcagtttct atatttagat tcttagttttt agtaaccttag gaccttcatg ttagaggtgt 3900
97 ctttggcaaa actgttatgt gagtggaaacg tttaatcaat tgaggataaa gatgcctcat 3960
98 tgctaatgaa gatgtgggaaaggattttt tgcaaccagt tcattttata acaacttgg 4020
99 taagctttat tagctgggtc tctactttat aactgtgttca tttaattttac aagacaataa 4080
100 aaattttttat ggttaatggg aaacccatctt tgctttcaat taaaattttt atttttttttt 4140
101 cttcggtggc atgggtggccaa aacattttt gctgtggaaa taatttcaat tcatatttttt 4200
102 ttggaaatcaa tatttttttttgg tggatattttc tcaaattttttt agtggacaaa tgatcagttt 4260
103 taggacatgtt ttaaaaaactt aaccatggc cacgtgcagt ggctcatgcc tgtaatccc 4320
104 gcactctggg aggccgcggt gaggcggattt ctttgagccca ggagttcaag accaggctgg 4380
105 qcaacatqggc aaaaaaccqgq ctctactaaa aatgcaaaaaa aaaaaaaaaaaaaaattt 4440

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/769,744

DATE: 01/27/2005

TIME: 15:54:47

Input Set : A:\2051-004.txt

Output Set: N:\CRF4\01272005\J769744.raw

106 tagctgggtt ttggggcct atgcctgcag tcccaagctac tcgggaggct gactcgagg 4500
 107 gctgaggcac aagaatcatt tgaacccagg aggcagaggt tgcaatgagc tgagaataca 4560
 108 ccactgcact ccagcctggg caacagagag agagagactc agtctaaaaa aacaaacaaa 4620
 109 caaacaaaca aaccgctgcc ctgtgcttg agagatctgt ttaccttac cactaaagac 4680
 110 tgtttggaaat aaattttaga aggttataa tacctaaaag taatcacttc tgtcttatga 4740
 111 aaggttctgc tgagatttt ctattgtggc cactagtggc aatattccag aagtcatatt 4800
 112 taaaagaatat cttagtgga ttcagcagtt ttcaaatat gtactttat ctctccaaca 4860
 113 ttcatgattt caattttca aattaaccc atgatataaa caactgtact ctatgatgcc 4920
 114 tcatagtaca gaaactggag gcagaaaagag aaggtaatg tctaagaatc ggttaattcta 4980
 115 aaactcaaca tagaccattc agcattatg gttctaaca tcccactgca aaatgagtt 5040
 116 ataatgtgt acactttatg gaactaaagc ataaagaacc atggtctcct aatgcagcaa 5100
 117 attaaaacac atgatagcta caattaatga agtacatagt cctggctggg cactatggta 5160
 118 cgtcccttac atagattatc tcttaaatta ttaaccccg ttttagagatg agaacattcg 5220
 119 ggctcaggaa gtttatgtaa gtttatataaa aatcacaaaaa taagagacag agctaagatt 5280
 120 tgaatccaag tggaccagg ttcatatcaa gcttcattt ttgaatttat attagaggtc 5340
 121 aataactcac ctttgtcctt ttaaaaataat tttggctct gtgacccata caggcaagct 5400
 122 gttatattaca aacaacccac acatctatg ggtcaatgtc tcacccccc cttttaccat 5460
 123 caggactcct agttagctgt caagggaaat gctataattt tggaggttct aatctgagg 5520
 124 gcttaagaaa gaaagaaatt gtaaaaagca ggcattactc agggggcatag attgtcaggc 5580
 125 agatctgtca tgcttatagg taacctcca gggccaaaaaa tatatgtgcc caaactgcct 5640
 126 aaatatttcc tgcacttca taatactgccc tgaatcctt ccaaatttgc acttcatttgc 5700
 127 tgttgcttgtt caattttaa cgcataagca aatcacctgg agatcttgtt aaaatgcaaa 5760
 128 ttctgatttag gtttagtctg ggtctgcatt tctgatatgc ttccagaggg cactgatgt 5820
 129 gctggccat ggaccacact taaaagaagca aaaaagatgt ctgatatttgc ctctctggct 5880
 130 gccttaggat gcttcattt taatgtggat ctcttgcattc atcataatgg gaggatgag 5940
 131 ctgaaaagca gcaaattaag agttagttaa gtgtctaccc cacttccttca ctatctgtaa 6000
 132 caaggcagggtt tggcactgt ggtcaaccag aaaattctt ccaggaccac aacccttgag 6060
 133 attatgttc aagatgcaaa ggacaactt aaaaataattt ccagcactgg tggcaatgg 6120
 134 tgcactgtca gttgtctgg tgcagggtcc tattcagact gtggtttacc tgccctggccc 6180
 135 gtttggttat gggccattttt ctgagttacca tggagcatcg cccagctgac aagggcttgt 6240
 136 actccaccct tggcgcgcag aaggaaatgt tggctgtac taagtttgtt gcaaagtaat 6300
 137 tgcgttttgc ccattaaat ttgataatgtt gagtccttac ttccctcagg taaaactaga 6360
 138 acttaagggg acacgctcaa gttcttacca tacagttacta agtttcaaaa atacgcaatt 6420
 139 ttatcaaaaca catgtctac agcagtggc ggcaaaacttt ttctgttaagg gcccagagag 6480
 140 taaatgtttt agatgttctg ggccacatattt ggtttctgtt ccagctataa actctgcac 6540
 141 tgcgtggccaa aagcaaccctt ccacaatatac tacatgaata ggtgtgttcc aaaaaaaactt 6600
 142 tatttgtgaa ccctgaaattt tgaatttcat aaactttca tgcgtcatga aatattctt 6660
 143 tgattttttc ccaacccctt aaagatgtaa caaccatttt tagcctgttag gcatataga 6720
 144 aacaggcagt gggctgggtt tgctgaccc tgcgtgttcc caatgtatc tcgatccat 6780
 145 ttataccccac aaattttctt ccttggaaacc atgcatttaa ttctcatctc ttcttaccat 6840
 146 gacaataaga agtttcttataa tataacaaag agattgtacc cacccttgc accatgg 6900
 147 tcatgtcatt tgcttcctca aaatttttgtt ctttataaaa atcaatataa gcacccat 6960
 148 aggttaagcag tgatgaaataa ttgttgcattt aaacatcacc taaaatagaaa 7020
 149 ctgtgataag aaccacaaat gcaaaaagga atcatgtatg aactaatgtg gaggatatct 7080
 150 tggtttagag atttgcattt cacgatgtttt gattaaaaaa aatttgcata atactcaat 7140
 151 ctgggtggg gagcttgctt tgcaagttgg tagaaaaattt tatttttttttgcataatgtt 7200
 152 ctaccactt ggattttctc gagctacta ccattccaaa ctattttagg cacagttact 7260
 153 agtttcaaga atcaggcaaa ttgcctggg attagactg ttctttctgt ggtcacaatg 7320
 154 caaactactg tggtaataa aatttagatga ttcttttagt cttccctttt tcagccccctg 7380

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/769,744

DATE: 01/27/2005
TIME: 15:54:47

Input Set : A:\2051-004.txt
Output Set: N:\CRF4\01272005\J769744.raw

```

155 tagtcaattt ccagtgcctcc attcaaagaa aaacccaaaaa tgtccagaat ataaccttat 7440
156 tttaaaaactt gttaaccact gatttcactt gttaacccaaa tttttttttt tttttttttg 7500
157 agaatgaatc tcactctgtc accaggctgg agtgcagtgg catgatctt gttcaactgca 7560
158 acctccgcct cctgggtact ggttcaagca atttccttgc ctcagtcctcc cgagtagctg 7620
159 ggattacagg tgtgcacccc cacacccagc taattttttt gtacttttag tagagatggg 7680
160 gtttcacccat gttggccggg ctgtcttaa actcctgacc tcgtgatccg cccgcctcg 7740
161 cctcccaaaag tgctgggatt gcaggcatga accactgcgc ccagcctgtt aaccaaattt 7800
162 ctaatcacac acacttgagg cccagtaat gcctgctgaa aagagggtgc tgggtgtgag 7860
163 gcaactgagg ggctaacaata ctgatagctg ctgaaaatctt ctacagctct ttcttgttag 7920
164 aacactccat cacgctccc aggcccacac cacatgaagg aacttcttagc tctcttgctt 7980
165 gctcttacc caaatgttagt tagcaagttc tggaaactaa acagcattga cacacttcaa 8040
166 gaagacaattt aggccaaatcc caactgcgtt gtcctgcag ctaaagatga agactcgcc 8100
167 attgggcagt tgattaattt taccttagaaa attaatttca atggtcccat gacaacatac 8160
168 gggcagtgaa gctcttagt tccccctggg tggaaatctt caggatgtat agtctccat 8220
169 accagctcat cctcccatat ttccagattt tgggtcttct ctcttaccta gtgtgttagt 8280
170 gccaatgg tggccccca aaaagatatg tccatgtgtt aaccctggaa actgtggatg 8340
171 taaccttatt tggaaaaatg gggccaggtg cagtggtgtg catgtgttagt cccagaactt 8400
172 tgagaagcca aggtgggaga atcgttggag cccaggagtt caagaacagc ccaggcaaca 8460
173 tattgagacc cccgtctcta taagcaataa aaaatttagct aggtgtggg tgcacccat 8520
174 gaagttccag ctacttgaga ggctgaggca gaaggactgc tcaagccaa ggagttcaag 8580
175 gctgcagtga gctatgatca tgcacccca ctccagcctg ggtgacagag tcagactccc 8640
176 tgtctcagga gaaaagaaaaaa aaaggctttt gtaatgtaa taaagaatct tgagataaga 8700
177 tcatacctgat ttaggatggc ccctaaatcc aatgacattt gtccttacaa aagaaaggta 8760
178 gagggactg tgagacagac acagagggga gggcttggg aagcagaag catagatgca 8820
179 gttacaagtcc aaggaaatgcc aaggactgtc tacaaccaga agccagggaa gatgcattgg 8880
180 atgatttctc cctcacagcc tccagaactt ctgccttca ggactgtgaa gaatcaattt 8940
181 ctgttggttt aagccaccaa gtttgggtt catttggatggc ggcacccatggca gtattaggac 9000
182 tctaatacac agtataaaaaa aataaaaaata gggccaggcg tgggtggctca gacctataac 9060
183 cccagcactt tggggggctt aggcggggag atcaacttgg gtcaggagtt tgagaccaac 9120
184 caggccaaaca tggtaaaacc ccatctctat taaaataaaa aatttagttgg gcatgggtt 9180
185 gtgcattctgt aatcccagg actcaggagg ctgaggcaga agaatcgctt gaacccaggaa 9240
186 agtggagggtt gtatgtatg ccactgcact ccagcctggg tgacagagct agactccttc 9300
187 atccttaggac acagccaaatgtt cttacgttagc aaaaagaagt tggtaaagggt ctgttagttct 9360
188 gcattaagca acacaggcat gtacctatga attatatgtat tataaaatgt ctccggacagg 9420
189 cccatttcaa acttggccctc ttccaccaa ctgtgtactg tttctcattt cataactaga 9480
190 gattatgtct ttatatctgt tcaaaaaatgtt gatgtttgtt gggctaagac attatccctg 9540
191 tgttaaatgc accagtctta gtgttaacaa gccttagttcc ttttcattt tgctgtctt 9600
192 gtatgcattt gtatgtctt ggcagtgtac taggcacctt aaatacatta ctttggttaa 9660
193 cctctacagg attctgggag gttaggcatta tcccttattt atagatgaga acactgagaa 9720
194 gacaatgttc ataagtgcgt cacttgcgt agatgacata tttactaagt agcagaacca 9780
195 ggcctcgagc tactcagtct gatttccaaa gcccctgc ttaatcacat caacttctt 9840
196 cctatatacac ctttccaga gtgcgtctc atgataaag agcagaagta taagttacta 9900
197 ggcagcagaa aactgttagag gtggggaaat tagataaaaaa atgtaaataa gaaggcttta 9960
198 agacacaaaaa atcaaatgtt aataactttt aacctgaatc agtgcgttgc ttcattgaggc 10020
199 tagaggtcgt gcattttac tcttaggtctg gtgtatggcaaa tcctgatcta cagccagcag 10080
200 caacagtcc ctgcctgccc tagaagttt taaatgtatg ggctttggta ggaggaagac 10140
201 gagagaaaagc agaacagatt attacaacc cagtgcattt ccccttgcgtt ggtcaacacgc 10200
202 gatttcttgc taatgtgaaatg acagcacact gggtttgtatg actcagcaga gaggtaggg 10260
203 gaaaaagaatg tctgaggcat tgcctggaaatg cctcgctctg cttaaacaag tacactaattt 10320

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/769,744

DATE: 01/27/2005

TIME: 15:54:47

Input Set : A:\2051-004.txt

Output Set: N:\CRF4\01272005\J769744.raw

204 gctcatgctt gttactccca gcactttgga aggccaagat gggtgatca cttgaggcca 10380
 205 ggagtttaag cccagcctgg tcaacatagc gagaccttt ctctattaaa aataaagaag 10440
 206 aaagaaagta ataatgattc aagttctcat tctctacaaa attcaattat gactttccaa 10500
 207 atgctagtga aaacctttag gtattgcaaa actgcctta tgcataacgg gattctcatt 10560
 208 ttacttagtc taagatgact ttttcactt gaacttctgc atctttatga tcgcttagct 10620
 209 ttctgacaag caatttcagt aagtgtttat caatttgcatt ccacacgctg acacataggg 10680
 210 gtctacttac atatccttca tctaattttag ctttgtaaa tcattttctt acatggtaca 10740
 211 cttctgattt tgtgtgcagc tttcttggta aagactgtt ttaaatgctc tgcttcctac 10800
 212 acccttagga acaatgagaa taaaagcgta atgttggta cttcttcata tcaaaggaag 10860
 213 ttcatctcct ggttattaaa agcttattattt aatggccat ctttttgtc ccctgtgtta 10920
 214 agcactctac caagatacca ttaaatagat aaggccaca ctccatagag atgatggttc 10980
 215 tatattctgtt atttctggg ggagttctaa tttcatgcaat ttcccttc ttaaataaaag 11040
 216 gcaattctctt aaatatatta cctaattgtgc tttcactttc atattctgtt aagatttttc 11100
 217 acataaaatca attctaaaaa aatagtatca taggcctttt aaaaatagtc atgttcaaaa 11160
 218 gtcaggctca tgaataaaatg tgtgcattca ttacatataat ttcataaaat tcaaatttaa 11220
 219 aagaataaga gtagctagaa ggtggaaagaa aaatcttattt ctgatttagga atgcacaatc 11280
 220 acaagaaaaat ttgtgatata tataatgttattt ttattctgtt ttgtttttt ttgattttgg 11340
 221 taagacaaga aacaatgttag aaagtttgcac aactaaaaaa agtaatatga gtgtgagaaaa 11400
 222 gtccttcaggatttca aaaaaatggt tttttttttt tttttttccg agatggagtc 11460
 223 tcgctctcgtt gccaggctg gactgcagtg gcgcattttt ggctcaactgc aaccccgcc 11520
 224 tccccgggttc aggtgattctt ctgcctcgtt cttcccaagt agctggactt acaggcatgt 11580
 225 gccaccatgc ccggtaattt ttttttattt ttagtagaga cgggtttca ccatgctggc 11640
 226 caggctgttc ttgaacttctt gaccttgcata tctggccgc ttgcctccc aaagtgtctgg 11700
 227 gattacagggc gtgagccacc gtacccagcc taaatggcca agtttattttt tgacaatttt 11760
 228 agctgttagaa taaaatctt cttttatag ctgcataatg gcctagttt tttgaagccaa 11820
 229 caaggcaggat tacaatccatcc atctgaatctt acagaaaaactt aagatttac 11880
 230 aagcagaaaaa tggaaatagt tcaggattaa ggaagattaa caaatgaaga gtagatgtat 11940
 231 tttagaagttt ttactttata tttttatagt ataataataa tatttacgtt cctacactta 12000
 232 taatgagttt cgttatataa tttttatataa ttaatggattt agtatttttta tatttgcattt 12060
 233 tagtaatattt ggtgtatgtt aaactcgatgtt gtctacattt tgagactaca cctgaggca 12120
 234 tttctgtgtt gatataacc tgaataggcattt atattacttgg gtagttttttt aaatagtttcc 12180
 235 aggcctaattt ttgcaggatcc atgatggggat agttagcatgtt acttcaaaaga actgactttt 12240
 236 agttttttttt tgaagaatgtt atgtgacaaac agcaagtataa aaacaatgcc aggcagaggt 12300
 237 gggactgttc atgggtatca gggtaagtgtt gttgatataat gctcaatgtt gggaaatacc 12360
 238 ttcttcccccc acacatgtca gaaaataactt gcaatagaat gcaacgacat ctcagagata 12420
 239 aagtgttcaat cttagctctc agagaccgtt cagttacattt ttgtatgac atttggattt 12480
 240 attgcattttt gaaggcaattt cttttatgtt agtcttattt ttgttgcattt aagctgggtt 12540
 241 atttattatgtt aaatttcaaa aatttgcattt aatattttttttaatgttccatccatcc 12600
 242 caaatttttaga attcaagactt tcatgatcca tggtaagattt attttatgttccatccatcc 12660
 243 attaactgaa atttcccttta actctcacat ctgccttttta cttcttaaga catttttctt 12720
 244 gtatatttccacc agagcaagat atcagaaggaa taaatctttt accaatgttccatccatcc 12780
 245 ctttagtgactt ccgttgcacc tgggtgttggg atcaggaaaca aagtgtatgtt aatcattttt 12840
 246 aatacatttc tgctttctctt aattccaaatg accactctaa agaataatgtt atttgggggtt 12900
 247 attatctgaa acttgggattt aaaagagacc gtgatttccat ttccaggattt ttggcaaaaac 12960
 248 ttaagccattt tcatttgcattt agcaaaagccaa gcctcccaatc ctcttgctt attctcacaa 13020
 249 ttatcttagat atcttagcaac aaaacttttgc atgtttttgtt taactacaga tgccaaggcc 13080
 250 tgacagtttc actttcattt ttccagaatattt cttttgttccat agtgggtttaa gcacaccatc 13140
 251 agaatctcta ctatataaaa taatttgcattt aatattttttttaatgttccatccatcc 13200
 252 taaaggaatc tagaagacac aactcatatcc ttataggttccatccatccatccatcc 13260

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/27/2005
PATENT APPLICATION: US/10/769,744 TIME: 15:54:48

Input Set : A:\2051-004.txt
Output Set: N:\CRF4\01272005\J769744.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:500; N Pos. 227,228,229,230,231,232,233,234,235,236,237,238,239,240
Seq#:500; N Pos. 241,242,243,244,245,246,247,248,249,250,251,252,253,254
Seq#:500; N Pos. 255,256,257,258,259,260,261,262,263,264,265,266,267,268
Seq#:500; N Pos. 269,270,271,272,273,274,275,276,277,278,279,280,281,282
Seq#:500; N Pos. 283,284,285,286,287,288,289,290,291,292,293,294,295,296
Seq#:500; N Pos. 297,298,299,300,301,302,303,304,305,306,307,308,309,310
Seq#:500; N Pos. 311,312,313,314,315,316,317,318,319,320,321,322,323,324
Seq#:500; N Pos. 325,326

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/769,744

DATE: 01/27/2005
TIME: 15:54:48

Input Set : A:\2051-004.txt
Output Set: N:\CRF4\01272005\J769744.raw

L:5034 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (175) SEQUENCE:
L:5038 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (176) SEQUENCE:
L:8310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:500 after pos.:180
M:341 Repeated in SeqNo=500